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# Safety Issues:

## What is Really Important to you?

- Worker Protection Hierarchy
- Illness Injury Prevention Program (IIPP)
- Inclement Weather: Heat Stress
- Ergonomics
- Eating, Drinking, Smoking
- Bonding & Grounding

# Worker Protection Hierarchy

- Most Effective to Least Effective
  - Substitution
  - Engineering Controls
  - Ergonomics
  - Administrative Controls
  - Personal Protective Equipment (PPE)

# Worker Protection Hierarchy

- Substitution
  - Hazard Evaluation & Assessment
  - Prevent hazards from entering workplace
  - Safer chemicals or products

# Worker Protection Hierarchy

- Engineering Controls
  - Using Devices to Make Work Safer



# Worker Protection Hierarchy

- Ergonomics
  - Fit the job to the worker
  - Reduce Repetitive Motions
  - Rotate Jobs

# Worker Protection Hierarchy

- Administrative Controls
  - Change the way workers do their jobs
  - Avoid Bending, Reaching & Lifting if possible
  - Lifting is shared by more than one worker
  - Reducing Exposure to Heat & Cold
  - Taking Frequent Breaks

# Worker Protection Hierarchy

- Personal Protective Equipment (PPE)
  - When no other solution available
  - Determine Conditions & hazards
  - Select PPE for Specific Hazard
  - Workers Trained to Use Equipment
  - Equipment Maintenance Program

# Illness Injury Prevention Program (IIPP)

- Why Have It?
- Cal/OSHA IIPP (8CCR Section 3203/GISO)
- Required Elements
- Developing Your Program

# Illness Injury Prevention Program (IIPP)

- Why Have It?
  - **Accidents Cost Money**
  - **Controlling Losses**

# Illness Injury Prevention Program (IIPP)

- Cal/OSHA IIPP (8CCR Section 3203/GISO)
  - Provide a safe and healthful workplace for his/her employees
  - California employers to have an effective program in writing

# Illness Injury Prevention Program (IIPP)

- Required Elements
  - Management commitment/assignment & responsibilities
  - Safety communications system with employees
  - Assuring employee compliance with safe work practices
  - Scheduled inspections/evaluation system
  - Accident investigation
  - Procedures for correcting unsafe/ unhealthy conditions
  - Safety and health training and instruction
  - Recordkeeping and documentation

# Illness Injury Prevention Program (IIPP)

- Developing Your Program Plan
  - Assign Responsibilities
  - Evaluate Existing Conditions & Work Practices
  - Safety & Health Survey
  - Workplace Assessment
  - Review
  - Develop an Action Plan
  - Communicate with Employees
  - Maintain Plan & Schedule Reviews

# Illness Injury Prevention Program (IIPP)

- **Safety & Health Recordkeeping**
  - Injury & Illness Records
  - Exposure Records
  - Documenting Activities
- **Model IIPP from Cal/OSHA**

# Illness Injury Prevention Program (IIPP)

- Information & Assistance
  - Cal/OSHA Consultation Service
  - National Safety Council (NSC)
  - Hazard Evaluation System and Information Services (HESIS)
- Appendix
  - A Model Policy Statements
  - B Non Mandatory Checklist Evaluation
  - C Code of Safe Practices
  - D Title 8, Section 3203 and 1509

# Inclement Weather: Heat Stress

- What is Heat Stress?
- How the Body Handles Heat
- Minor Heat Disorders
- Major Heat Disorders
- Controlling Heat Stress
- Other Factors

# Inclement Weather: Heat Stress

- What is Heat Stress?
  - Those at Risk
  - Hazards
  - Coping with Hazards

# Inclement Weather: Heat Stress

- How the Body Handles Heat
  - Body Heat Conditions
  - Heat Gain or Loss
  - Effects of Heat Stress
  - Body Cooling System

# Inclement Weather: Heat Stress

- Minor Heat Disorders
  - Sunburn
  - Heat Rash

# Inclement Weather: Heat Stress

- Major Heat Disorders
  - Cramps
  - Exhaustion
  - Stroke

# Inclement Weather: Heat Stress

- Controlling Heat Stress
  - Acclimatization
  - Work Procedures
  - Food and Water Intake

# Inclement Weather: Heat Stress

- Other Factors
  - Age
  - Fatigue
  - Medications
  - Drugs and/or Alcohol
  - Physical Conditioning

# Ergonomics

- Repetitive Motion Injuries (RMIs)
- Prevention & Care
- Neutral/Natural Position
- Using Tools/Less Force/No Pressure
- Lifting Properly
- Work Area Adjustments

# Eating, Drinking, Smoking

- Eating and Drinking Areas - 29CFR1910.120(g)(2)
  - No employee shall be allowed to consume food or beverages in a toilet room nor in any area exposed to a toxic material
- Smoking at HHW Events
  - Don't Do It!

# Smoking

- Smoking – Don't Do It! 29CFR1910
  - Dip Tanks / 29CFR1910.108(f)(4)
  - Dual Component Coatings/29CFR1910.107(m)(2)
  - Explosives / 29CFR1910.109(e)(1)
  - Flammable Liquids / 29CFR1910.106(d)(7)(iii)
  - Powder Coatings / 29CFR1910.107(g)(7)
  - Spraying / 29CFR1910.107(8)(7); (1)(4)(iii);(m)(2)

# Smoking

- Smoking – Don't Do It! (Title 8CCR)
  - No Smoking (S. 5148)
  - Smoking /PSO (S. 6518)
  - Smoking, Matches & Lighters (S. 6772)
  - Fire Prevention & Control (S. 7055)

# Bonding & Grounding

- Dispensing Liquids (8CCR 1934)
  - Transferring from one container to another
- Static Electricity (8CCR 5168)
  - Hazardous Substances and Processes
- Static Electricity (8CCR 6775)
  - Fire and Explosions

# References

- <http://www.dir.ca.gov/> (Dept of Industrial Relations)
- <http://www.dir.ca.gov/dosh/> (Div. Of Occ. Safety & Health)
- [InfoCons@dir.ca.gov](mailto:InfoCons@dir.ca.gov) (Cal/OSHA Consultation Service)
- [www.californiaosha.info](http://www.californiaosha.info) Employer Records - Injury & Illness